Indices, 1972

AIIE TRANSACTIONS

Volume 4, 1972

Subjects (coded) and titles

0100 Work measurement

0115 Measuring operator performance

"Biomechanical computerized simulation of human strength in sagittal-plane activities" James B. Martin, Don B. Chaffin; March, page 19.

0300 Facility planning

0305 Plant layout analysis techniques

"Layout planning by computer simulation"; Klaus Zoller, Kristian Adendorff; June, page 116.

0315 Plant layout theory

"A generalized assignment approach to optimal facility layout"; A. J. Mallette, R. L. Francis; June, page 144.

"Optimal warehouse bay configurations"; Stephan D. Roberts, Ruddell Reed, Jr.; September, page 178.

"Optimum design of warehouses having radial aisles"; John A. White; December, page 333.

0340 Material handling theory

"Analysis of closed-loop conveyor systems"; Eginhard J. Muth, June, page 134.

0360 Plant location

"A quantified model for facility site selection—application to a multiplant"; Phillip A. Brown, David F. Gibson; March, page 1.

"A geometrical solution procedure for a rectilinear distance minimax location problem"; Richard L. Francis; December, page 328.

0380 Transportation

"Piecewise linear programming solutions of transportation costs as obtained from rate tariffs"; Lynn Vogt, John Even; June, page 148.

"An a priori bounded model for transportation problems with stochastic demand and integer solutions"; Dan Wilson; September, page 186.

"The transportation problem with penalty costs"; Donald C. Aucamp; September, page 244.

0400 Applied psychology

0405 Motivation and psychological aspects

"The value of information in aggregate production planning—a behavioral experiment"; Herbert Moskowitz; December, page 290.

0420 Biomechanics

"Biomechanical computerized simulation of human strength in sagittal-plane activities"; James B. Martin, Don B. Chaffin; March, page 19.

"The control effect of small weights on hand-arm movements in the horizontal plane"; Stephan Konz, Vijaykumar Rode; September, page 228.

0445 Learning

"Learning considerations with economic order quantity"; A. W. Wortham, A. M. Mayyasi; March, page 69.

"The effects of discounting profits in the presence of learning in the optimization of production rates"; Alan R. Washburn; September, page 205.

0500 Engineering economics

"Applications of production functions in management decisions"; P. T. Lele, J. W. O'Leary; March, page 36.

"Learning considerations with economic order quantity"; A. W. Wortham, A. M. Mayyasi; March, page 69.

0520 Resource allocation

"Comparative analysis of R & D investment models"; William E. Souder; March, page 57.

0600 Organization planning

0635 Financial planning

"Comparative analysis of R & D investment models"; William E. Souder; March, page 57.

0700 Materials processing

"Application of response surface methodology to the selection of machining variables"; Khalil S. Taraman, Brian K. Lambert; June, page 111.

0800 Production planning and control

"Applications of production functions in management decisions"; P. T. Lele, J. W. O'Leary; March, page 36.

"The effects of discounting profits in the presence of learning in the optimization of production rates"; Alan R. Washburn; September, page 205.

" A comparison of exact and heuristic routines for lot size determination in multi-stage assembly systems"; W. B. Crowston; M. H. Wagner, A. Henshaw; December, page 313.

"Application of the loading algorithm to balance workloads"; Irwin Greenberg; December, page 337.

"The value of information in aggregate production planning—a behavioral experiment"; Herbert Moskowitz; December, page 290.

0805 Inventory control

"The sensitivity to number of periods of multiperiod, no set-up stochastic inventory policies"; B. L. Foote; March, page 65.

"Scheduling in a multistage production system with set-up and inventory costs"; P.A. Jensen, H. A. Khan; page 126.

"The generalized newsboy problem, contract negotiations and secondary vendors"; Irwin W. Kabak, Charles B. Weinberg, June, page 154.

"The effect of station breakdowns and random processing times on the capacity of flow lines with in-process storage"; John A. Buzacott; December, page 308.

"Multiechelon inventory systems using continuous systems analysis and simulation"; Urban Meyer, Mikell P. Groover; December, page 318.

"Priority scheduling and inventory control in job lot manufacturing systems"; William L. Berry; December, page 267.

0810 Forecasting

"The second order forecaster—single smoothing"; Giora Baram, Garry Miller; June, page 158.

0815 Scheduling

"Heuristic algorithms for multistage flowshop scheduling problem"; Jatinder N. D. Gupta; March, page 11.

"Scheduling in a multistage production system with set-up and inventory costs"; P.A. Jensen, H. A. Khan; June, page 126.

"Optimal scheduling in a multistage flowshop"; Jatinder Gupta; September, page 238.

"The one-machine sequencing problem with early starts and due dates"; M. I. Dessouky, C. R. Margenthaler: September, page 214.

"Priority scheduling and inventory control in job lot manufacturing systems"; William L. Berry; December, page 267.

"Time horizon: implications for aggregate scheduling effectiveness"; Ronald J. Ebert; December, page 298.

0820 Dispatching

"A dispatching methodology for balancing workload assignments in a job shop production facility"; Richard H. Deane; December, page 277.

0825 Routing

"Parallel operation of sequential service lines with interline transfer"; J. A. Svestka, K. P. K. Nair; March, page 29.

0840 Analysis and measurement techniques for planning and control (systems engineering)

"Multiechelon inventory systems using continuous systems analysis and simulation"; Urban Meyer, Mikell P. Groover, December, page 318.

0850 Stockkeeping and warehousing

"Optimal warehouse bay configurations"; Stephan D. Roberts, Ruddell Reed, Jr.; September, page 178.

"Optimum design of warehouses having radial aisles", John A. White; December, page 333.

0860 PERT, CPM, line balancing

"The one-machine sequencing problem with early starts and due dates"; M. I. Dessouky, C. R. Margenthaler; September, page 214.

"Use of stochastic networks in reliability analysis"; J. K. Byers, R. W. Skeith; September, page 169.

0900 Data processing systems design

0940 Information systems design

"Problems of implementing change in two hospital settings"; Fred C. Munson; Walton M. Hancock; December, page 258.

1000 Applied mathematics and operations research

"Bayesian reliability demonstration"; George J. Schick, Thomas M. Drnas; June, page 92.

"The effect of station breakdowns and random processing times on the capacity of flow lines with in-process storage"; John A. Buzacott; December, page 308.

"Application of the loading algorithm to balance workloads"; Irwin Greenberg; December, page 337.

"Time horizon: implications for aggregate scheduling effectiveness"; Ronald J. Ebert; December, page 298.

1005 Mathematical programming

"Heuristic algorithms for multistage flowshop scheduling problem"; Jatinder N. D. Gupta; March, page 11.

"A linear programming formulation of a water supply problem"; Kenneth E. Case, John A. White; June, page 85.

"Piecewise linear programming solutions of transportation costs as obtained from rate tariffs"; Lynn Vogt, John Even; June, page

148.

"The generalized newsboy problem, contract negotiations and secondary vendors"; Irwin W. Kabak, Charles B. Weinburg; June, page 154.

"The second order forecaster—single smoothing"; Giora Baram, Garry Miller; June, page 158.

"Scheduling in a multistage production system with set-up and inventory costs"; P. A. Jensen, H. A. Khan; June, page 126.

"An a priori bounded model for transportation problems with stochastic demand and integer solutions"; Dan Wilson; September, page 186.

"Economic multiattribute acceptance sampling"; J. W. Schmidt, G. K. Bennett; September, page 194.

"Linear programming analysis of a water supply with multiple supply points", Ishwar Gupta, M. Zia Hassan, John Cook; September, page 200.

"Use of stochastic networks in reliability analysis"; J. K. Byers, R. W. Skeith; September, page 169.

"A comparison of exact and heuristic routines for lot-size determination in multistage assembly systems"; W. B. Crowston, M. H. Wagner, A. Henshaw, December, page 313.

"Sensitivity analysis in linear integer programming"; V. Joseph Bowman, Jr.; December, page 284.

1010 Waiting line theory

"On GERT modeling of a class of finite queueing processes", Micheal H. Branson, Bharat Shah; March, page 43.

"Parallel operation of sequential service lines with interline transfer"; J. A. Svestka, K. P. K. Nair; March, page 29.

"Queueing with poisson arrivals from both a finite and infinite population"; K. Truemper, J. M. Liitschwager; September, page 223.

1015 Simulation concepts

"Layout planning by computer simulation"; Klaus Zoller, Kristian Adendorff; June, page 116.

"Multiechelon inventory systems using continuous systems analysis and simulation"; Urban Meyer, Mikell P. Groover; December, page 318.

1040 Acceptance sampling

"Economic multiattribute acceptance sampling"; J.W. Schmidt, G.K. Bennett; September, page 194.

1045 Quality control techniques

"Minimum cost multivariate quality control tests"; Douglas C. Montgomery, Phillip J. Klatt; June, page 103.

1070 Reliability

"Application of response surface methodology to the selection of machining variables"; Khalil S. Taraman, Brian K. Lambert, June; page 111.

"Bayesian reliability demonstration"; George J. Schick, Thomas M. Drnas; June, page 92.

"Use of stochastic networks in reliability analysis"; J. K. Byers, R. W. Skeith; September, page 169.

1100 Costs and cost control

"Piecewise linear programming solutions of transportation costs as obtained from rate tariffs"; Lynn Vogt, John Even; June, page 148.

1120 Control procedures

"Learning considerations with economic order quantity"; A. W. Wortham, A. M. Mayyasi; March, page 69.

"A generalized assignment approach to optimal facility layout"; A. J. Mallette, R. L. Francis; June, page 144.

"Minimum cost multivariate quality control tests"; Douglas C. Montgomery, Phillip J. Klatt; June, page 103.

"Economic multiattribute acceptance sampling"; J.W. Schmidt, G.K. Bennett; September, page 194.

1125 Purchasing and economic lot sizes

"Optimal contract purchasing policies"; Michael S. Leonard, Stephen D. Roberts: March, page 49.

"The sensitivity to number of periods of multiperiod, no set-up stochastic inventory policies"; B. L. Foote; March, page 65.

"Economic order quantities for products with finite demand horizons"; L. B. Schwarz; September, page 234.

"A comparison of exact and heuristic routines for lot-size determination in multi-stage assembly systems"; W. B. Crowston, M. H. Wagner, A. Henshaw; December, page 313.

1300 Industrial engineering

1305 Industrial engineering—general

"A linear programming formulation of a water supply problem"; Kenneth E. Case, John A. White; June, page 85.

"Linear programming analysis of a water supply system with multiple supply points"; Ishwar Gupta, M. Zia Hassan, John Cook; September, page 200.

1315 Management

"Applications of production functions in management decisions"; P. T. Lele, J. W. O'Leary; March, page 36.

"Comparative analysis of R & D investment models"; William E. Souder; March, page 57.

1320 Industrial engineering in hospitals

"Problems of implementing change in two hospital settings"; Fred C. Munson, Walton M. Hancock, December; page 258.